

Oy 17 ACAGCGODDEYDKRAVNIKGLKIVLEKRYRGSVSLVWVNASCGFDGDHRYRALQGLQRLDGP 76
 Db 71 ARAAAEKIVHDFTVTKDIDKRDVALNFKRGKVMILVWNASCGLTSSNYSLSHLYEKYKT 130
 Oy 77 HHFNVLAFPCNFGGOEPPDSNKEIESEFACRTYVSVPFMEFKIAVNTGGAHPAFYLAQTS 136
 Db 131 QGFELLIAFPCNFGPDRPGSSNSEIKQFACRFRFAEPIIFDKVDVNGSTAPIYEFLASNA 190
 Oy 137 G-----KEPTWNFMKYLVPADGKRVVGAMPDPTVSVEEVRLLQITALV 176
 Db 191 GGFGLGLK---WNFEKFLIDKKGKVERPRPTTSPRQIEKDLOKLL 234
 RESULT 8
 T06309
 glutathione peroxidase (EC 1.11.1.9) Fl1C18.70 - Arabidopsis thaliana
 N:Alternate names: protein Fl1C18.70
 C:Species: Arabidopsis thaliana (mouse-ear cress)
 C:Date: 30-Apr-1999 #sequence_revision 30-Apr-1999 #text_change 29-Oct-1999
 C:Accession: T06309
 R:Bevan, M.; Terry, N.; Ardiles, W.; Buyschaert, C.; Dasseville, R.; De Clerck, R.;
 ewes, H.W.; Mayer, K.F.X.; Schueller, C.
 submitted to the Protein Sequence Database, April 1999
 A:Reference number: 215589
 A:Accession: T06309
 A:Molecule type: DNA
 A:Residues: 1-230 <BEV>
 A:Cross-references:EMBL:AL049607; GSPDB:GND0062; ATSP:Fl1C18.70

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A:Gene: ATP5F11C18.70
A:Map position: 4
A:Introns: 82/3; 108/2; 129/1; 168/3
C:Superfamily: glutathione peroxidase
C:Keywords: oxidoreductase

Query Match      33.6%; Score 330; DB 2; Length 230;
Best Local Similarity 43.0%; Pred. No. 1,8e-24;
Matches 68; Conservative 21; Mismatches 65; Indels 4; Gaps 1;

Oy 17 ACAQGEQDYPDKAVNIRKGLVLEKYGKRSVLVNNVNASRCGFIDQHYRALQQLQORDGP 76
    | | | | | : : : | | | | | : : : | | | | | : : | |
Db 68 AAAAEEKSVHDFIVKIDIDGVSIDKFKGPLLVNVAASRGITSSNVSLSQLYEKYN 127
    | | | | | : : : | | | | | : : : | | | | | : : | |

Oy 77 HHHNVLAFCNGOFGOEPDSNKEISEFACSTYSVSPMFKIAVTGGAHPAFVLAQTS 136
    | | | | | : : : | | | | | : : : | | | | | : : | |
Db 128 QGFELLIAFCNGOFGOEPGSPNPEIKOPACTRFKAEEPIFDKVDVNGSTADYIFKLSNA 187
    | | | | | : : : | | | | | : : : | | | | | : : | |

Oy 137 ---CKEPTNFMFKYLVADPGKVVGAWDPTVSVEEVL 170
    | | | | | : : : | | | | | : : : | | | | | : : | |
Db 188 GGFLGDIIKMFNEKFLVDKKKGYVERPTTSPFQIEV 225
    | | | | | : : : | | | | | : : : | | | | | : : | |

RESULT 9
575885
glutathione peroxidase homolog sir1171 - Synechocystis sp. (strain PCC 6803)
N:Alternate names: protein sir1171
A:Variety: PCC 6803
C:Date: 25-Apr-1997 #sequence_revision 25-Apr-1997 #text_change 20-Jun-2000
C:Accession: S75885
R:Kaneko, T.; Sato, S.; Kotani, H.; Tanaka, A.; Asamizu, E.; Nakamura, Y.; Miyajima,
C. K.; Okumura, S.; Shimpo, S.; Takeuchi, C.; Wada, T.; Watanabe, A.; Yamada, M.; Y
DNA Res. 3, 109-136, 1996
A:Title: Sequence analysis of the genome of the unicellular cyanobacterium Synechoc
-

```

A:Status::nucleic acid sequence not shown; translation not shown
A:Molecule type: DNA
A:Residues: 1-169 <RAN>

Db 124 LGGDIGNFSEKFIYDKNQPYDCYYPTTSPLEVERDIQKLL 164

RESULT 15

AE1555

glutathione peroxidase homolog lin0982 [imported] - *Listeria innocua* (strain CLIP126)

C:Species: *Listeria innocua*

C:Date: 27-Nov-2001 #sequence_revision 27-Nov-2001 #text_change 14-Dec-2001

C:Accession: AE1555

R:Glaser, P.; Frangoul, L.; Buchrieser, C.; Amend, A.; Baquero, F.; Berche, P.; Bloesch,
.; Dominguez-Bernal, G.; Duchaud, E.; Durand, L.; Dussurget, O.; Entlian, K.D.; Fsihi,
D.; Jones, L.M.; Karst, U.

Science 294, 849-852, 2001

A:Authors: Kreft, J.; Kuhn, M.; Kunst, F.; Kurapkai, G.; Madueno, E.; Maitournam, A.;
Ok, C.; Schlutener, T.; Simoes, N.; Tietz, A.; Vazquez-Boland, J.A.; Voss, H.; Wehla

A:Title: Comparative genomics of *Listeria* species

.;Reference number: AB1077; MUID:21537279; PMID:11679669

A; Reference number: AB1077; MUID:2153

A: Molecule type: DNA
A: Residues: 1-158 <GLA>
A: Cross-references: GB:AL592022; PIDN:CAC96213.1; PID:q16413441; GSPDB:GN00178

C:Genetics:
A:Gene: lin0982
C:Superfamily: glutathione peroxidase

Query Match	32.08;	Score 315;	DB 2;	Length 158;
Best Local Similarity	42.88;	Pred. No. 3.3e-23;		

26 YDEKAVNIRGKLVSLSEKYGSGVSLVNVNVA^{ECG}FLDQHYRALDQDLRDGLPHHFNVLAF^R 85

[illegible]

Db 123 AKFLIDENGVEVERFPSPKMKPEDEEDKVEALV 154

Search completed: August 23, 2002, 14:38:08
Job time: 25 sec

Search completed: August 23, 2002, 14:38:08
Job time: 25 sec

Mon Aug 26 08:01:41 2002

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